

DETAILED ACTION

1. This communication is responsive to Amendment filed 04/06/09.

As a result of the amendment, claims 1, 3-15, 18-23, 26-28 remain pending.

The rejection of claims 26-28 under 35 U.S.C. §112 second paragraph has been withdrawn in view of the amendment.

The rejection of claims 1, 14, 18 under 35 U.S.C. §101 has been withdrawn in view of the amendment.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative, Randall S. Svihla, on May 29, 2009.

The application has been amended as follows:

- **Cancel claims 3, 8, 11-12**
- **Claim 1 has been amended as:**

A reproducing method of reproducing audio-video (AV) data using a reproducing apparatus, the method comprising:

selecting an interactive mode of the reproducing apparatus in which the reproducing apparatus reproduces the AV data to display an AV picture, and

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reproduces interactive data to display an interactive picture in which the AV picture is embedded, the interactive data comprising additional contents in a plurality of different natural languages, the reproducing apparatus also being operable in a video mode in which the reproducing apparatus reproduces the AV data to display the AV picture without reproducing the interactive data;

reading a startup file of the interactive data, the startup file comprising language information identifying the plurality of different natural languages of the additional contents of the interactive data;

reading the language information from the startup file;

determining which one of the plurality of different natural languages identified by the read language information is the same as a natural language identified by player language information stored in the reproducing apparatus;

reading a portion of the interactive data comprising additional contents in the one natural language that is the same as the natural language identified by the player language information stored in the reproducing apparatus;

interpreting and executing the read portion of the interactive data to display the interactive picture, the interactive picture displaying the additional contents in the one natural language that is the same as the natural language identified by the player language information stored in the reproducing apparatus;
and

reproducing the AV data to display the AV picture embedded in the interactive picture;

wherein:

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the reading of the language information from the startup file comprises reading from the startup file language information recorded using an element linking a loading information file of a corresponding enhanced navigation (ENAV) application of the interactive data;

the determining of which one of the plurality of different natural languages comprises:

comparing the read language information with the player language information; and

selecting one ENAV application from a plurality of ENAV applications based on a result of the comparing; and

the reading of the language information further comprises parsing the language information recorded using a "name" property and a "value" property in an element that stores a condition selecting a linked loading information file, included in the element linking the loading information file.

- **Claim 4 has been amended as:**

The reproducing method of claim 1, wherein the language information read from the startup file comprises language information identifying a plurality of different natural languages used in a plurality of enhanced navigation (ENAV) applications of the interactive data, each of which comprises substantially similar additional contents but in a natural language that is different from natural languages of additional contents of the other ENAV applications.

- **Claim 5 has been amended as:**

The reproducing method of claim 1, wherein the determining of which one of the plurality of different natural languages further comprises reading the player language information stored in the reproducing apparatus from a system parameter table stored in the reproducing apparatus in which the player language information is stored as a system parameter.

- **Claim 6 has been amended as:**

The reproducing method of claim 1, wherein the determining of which one of the plurality of different natural languages further comprises reading a system parameter SPRM 0 according to a DVD-Video standard that is stored in the reproducing apparatus as the player language information stored in the reproducing apparatus.

- **Claim 7 has been amended as:**

The reproducing method of claim 1, wherein:

the loading information file of the corresponding ENAV application
indicates location information of ENAV files belonging to the corresponding ENAV application; and

the reading of a portion of the interactive data comprises reading the ENAV files belonging to the corresponding ENAV application with reference to the loading information file of the corresponding ENAV application.

- **Claim 13 has been amended as:**

The reproducing method of claim 1, wherein the "value" property is recorded as a language code having two characters according to an ISO 639 standard.

- **Claim 14 has been amended as:**

A method of reproducing audio-video (AV) data and enhanced navigation (ENAV) data from an optical disk using a reproducing apparatus, the method comprising:

selecting an interactive mode from a plurality of modes comprising the interactive mode and a video mode, the interactive mode being a mode in which the AV data is reproduced to display an AV picture and the ENAV data is reproduced to display an interactive picture in which the AV picture is embedded, and the video mode being a mode in which the AV data is reproduced to display the AV picture and the ENAV data is not reproduced;

reading language information from a startup file of the ENAV data on the optical disk, the language information identifying a plurality of different natural languages used in the ENAV data;

determining which one of the plurality of different natural languages identified by the read language information is the same as a natural language identified by player language information stored in the reproducing apparatus;

reading a portion of the ENAV data based on a result of the determining, the read portion of the ENAV data being in the one natural language that is the same as the natural language identified by the player language information stored in the reproducing apparatus;

executing the read portion of the ENAV data to display the interactive picture; and

reproducing the AV data from the optical disk to display the AV picture embedded in the interactive picture;

wherein:

the reading of the language information from the startup file comprises reading from the startup file language information recorded using an element linking a loading information file of a corresponding ENAV application of the ENAV data;

the determining of which one of the plurality of different natural languages comprises:

comparing the read language information with the player language information; and

selecting one ENAV application from a plurality of ENAV applications based on a result of the comparing; and

the reading of the language information further comprises parsing the language information recorded using a "name" property and a "value" property in an element that stores a condition selecting a linked loading information file, included in the element linking the loading information file.

- **Claim 15 has been amended as:**

The reproducing method of claim 14, wherein the determining of which one of the plurality of different natural languages further comprises reading the player language information from a system parameter table stored in the reproducing apparatus.

- **Cancel claims 20, 23**

- **Claim 18 has been amended as:**

A method of reproducing audio-video (AV) data in an interactive mode supported by interactive data associated with the AV data, the method comprising:

selecting an interactive mode from a plurality of modes comprising the interactive mode and a video mode, the interactive mode being a mode in which the AV data is reproduced to display an AV picture and the interactive data is reproduced to display an interactive picture in which the AV picture is embedded, and the video mode being a mode in which the AV data is reproduced to display the AV picture and the interactive data is not reproduced;

reading language information from a startup file of the interactive data, the language information identifying a plurality of different natural languages used in the interactive data;

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reading a portion of the interactive data that is in one of the plurality of different natural languages identified by the read language information that is the same as a predetermined natural language; and

interpreting and executing the read portion of the interactive data to display the interactive picture;

wherein:

the predetermined natural language is a natural language that is identified by player language information stored in a reproducing apparatus;

the interactive data comprises a plurality of loading files respectively corresponding to the plurality of different natural languages used in the interactive data, each of the loading files identifying an interactive data file corresponding to a respective one of the plurality of different natural languages;

the startup file lists the plurality of loading files in association with the language information identifying the plurality of different natural languages used in the interactive data;

the reading of the language information comprises reading the startup file and identifying the interactive data file corresponding to each of the plurality of different natural languages used in the interactive data; and

the reading of a portion of the interactive data comprises:

determining which one of the plurality of different natural languages identified by the read language information is the same as the natural language identified by the player language information stored in the reproducing apparatus; and

reading the interactive data file identified in the reading of the language information as corresponding to the one of the plurality of different natural languages that is the same as the natural language identified by the player language information stored in the reproducing apparatus.

- **Claim 21 has been amended as:**

The reproducing method of claim 18, wherein the natural language identified by the player language information is a natural language specified by a user of the reproducing apparatus.

- **Claim 22 has been amended as:**

The reproducing method of claim 18, wherein the natural language identified by the player language information is a natural language of a menu of the reproducing apparatus, or a natural language of an audio stream to be reproduced by the reproducing apparatus, or a natural language of a caption to be reproduced by the reproducing apparatus, or a natural language of a portion of the interactive data to be read in the reading of a portion of the interactive data.

Reasons for Allowance

3. Claims 3, 8-12, 20, 23 are cancelled, claims 1, 4-7, 13-15, 18-19, 21-22, 26-28 are allowed, now renumbered as 1-15.

4. The following is a statement of reasons for the indication of allowable subject matter:

The present invention relates to a method of reproducing an information storage medium having data structure for being reproduced adaptively according to player startup information.

Claims 1, 14, recite, or similarly recite, in combination with the remaining elements, a reproducing method of reproducing audio-video (AV) data using a reproducing apparatus, the method comprising:

reproducing the AV data to display the AV picture embedded in the interactive picture;

wherein:

the reading of the language information from the startup file comprises reading from the startup file language information recorded using an element linking a loading information file of a corresponding enhanced navigation (ENAV) application of the interactive data;

the determining of which one of the plurality of different natural languages comprises:

comparing the read language information with the player language information; and

selecting one ENAV application from a plurality of ENAV applications based on a result of the comparing; and
the reading of the language information further comprises parsing the language information recorded using a "name" property and a "value" property in an element that stores a condition selecting a linked loading information file, included in the element linking the loading information file.

The closest prior art, et al. Kanazawa et al. (U.S. Pub. No. 20030152366), shows a substantially similar system for reproducing audio video (AV) data. While Kanazawa discloses a system for reproducing AV information from a storage medium which is capable of not only reproducing normal titles but also easy acquiring related information connected with specific stream information from resources on a computer network, Kanazawa does not fairly disclose the language information as recited in the claimed limitations. Furthermore, although Tsumagari et al. (U.S. Pub. No. 20030161615) teaches a process in which a user converts a DVD status signal, Kanazawa and Tsumagari et al., singularly or in combination, still fail to anticipate or render the above cited limitations obvious.

Claim 18 recites, or similarly recites, in combination with the remaining elements, a method of reproducing audio-video (AV) data in an interactive mode supported by interactive data associated with the AV data, the method comprising:

interpreting and executing the read portion of the interactive data to display the interactive picture;

wherein:

the predetermined natural language is a natural language that is identified by player language information stored in a reproducing apparatus;

the interactive data comprises a plurality of loading files respectively corresponding to the plurality of different natural languages used in the interactive data, each of the loading files identifying an interactive data file corresponding to a respective one of the plurality of different natural languages;

the startup file lists the plurality of loading files in association with the language information identifying the plurality of different natural languages used in the interactive data;

the reading of the language information comprises reading the startup file and identifying the interactive data file corresponding to each of the plurality of different natural languages used in the interactive data; and

the reading of a portion of the interactive data comprises:

determining which one of the plurality of different natural languages identified by the read language information is the same as the natural language identified by the player language information stored in the reproducing apparatus; and

reading the interactive data file identified in the reading of the language information as corresponding to the one of the plurality of different natural languages that is the same as the natural language identified by the player language information stored in the reproducing apparatus.

The closest prior art, et al. Kanazawa et al. (U.S. Pub. No. 20030152366), shows a substantially similar system for reproducing audio video (AV) data. While Kanazawa discloses a system for reproducing AV information from a storage medium which is capable of not only reproducing normal titles but also easy acquiring related information connected with specific stream information from resources on a computer network, Kanazawa does not fairly disclose the

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language information as recited in the claimed limitations. Furthermore, although Tsumagari et al. (U.S. Pub. No. 20030161615) teaches a process in which a user converts a DVD status signal, Kanazawa and Tsumagari et al., singularly or in combination, still fail to anticipate or render the above cited limitations obvious.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James K. Trujillo, can be reached at (571) 272-3677. The fax number to this Art Unit is (571)-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Miranda Le/
Primary Examiner, Art Unit 2159

